

	MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES ONSITE WASTEWATER TREATMENT PROGRAM REGISTERED OWTS PROFESSIONALS CEU EXERCISE	FOR DHSS USE ONLY
		Date Paid:
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\$30.00 CEU FEE

Operation and Maintenance Guidelines
Chapter 5 – Lagoons – A Pretreatment Component
Questionnaire #120

Spring 2015
Available for a limited time

To receive 2.0 CEUs, a check or money order for **\$30.00** must be received with this completed Internet Exercise. We will accept business or personal checks, or money orders for payment. We cannot accept credit cards or purchase orders. **Make check or money order payable to the Missouri Department of Health & Senior Services** and mail to:

Missouri Department of Health and Senior Services
Attention: Fee Receipts
P.O. Box 570
Jefferson City, MO 65102-0570

For Continuing Education Unit (CEU) credit, the linked article, complete the following questionnaire, return the completed questionnaire and a \$30.00 fee by mail to: DHSS, Attn: Fee Receipts, Onsite Wastewater Treatment Program, P.O. Box 570, Jefferson City, MO 65102.	Select Units					
	Total General CEUs	Installer		Inspector	OSE	Perc Tester
		Basic	Advanced			
Missouri Department of Health and Senior Services Onsite Wastewater Treatment Program An Onsite Wastewater Treatment System Owner’s Manual Chapter 5: Lagoons A Pretreatment Component <i>(to select Chapter 5 for printing, after opening the link, please go to page 2, Table of Content and click on Chapter 5)</i> http://health.mo.gov/living/environment/onsite/pdf/SystemOwnersManual.pdf	2.0	2.0	0	1.0	0	0

I, _____

Last
First
Middle Initial
Professional ID Number(s)

have read the documents listed above and completed the following questions:

Signature

Contact Phone Number

Date

Email Address

Fax Number

Please read Chapter 5, Lagoons and answer the following questions.

Lagoons – A Pretreatment component

- Name an option for single-family residences other than a septic tank system?

and _____

2. What types of treatment does wastewater receive in a lagoon? _____
_____ and _____
3. List six (6) factors used in determining a lagoon's design:
1) _____ 2) _____
3) _____ 4) _____
5) _____ 5) _____
4. What is the most common type of lagoon use by individual household? _____
What are other names for this type of lagoon? _____
_____ and _____
5. Name three distinct layers or zones of a lagoon _____
_____ and _____
6. Why did the US Environmental Protection Agency established five management

7. What is the minimum height for fence and gate? _____
8. Name the processes that happen in the lagoon when treating the water.
_____ and _____
9. A lagoon's large surface area and long retention time use _____
_____ and _____ for wastewater treatment.
10. This is not a state requirement, by the state highly recommends what to precede the lagoon?
_____ or _____
11. How do you base the water surface area of the
lagoon? _____.
12. Why do you direct storm water runoff away from the lagoon? _____
_____.
13. What is the function of a swale? _____

_____.

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14. What plays an important role at the water surface? _____
and _____.
15. What are the easiest and most important tasks in maintaining a lagoon? _____

_____.
16. List the items that should be inspected at least once per year:
- 1) _____

- 2) _____

- 3) _____

- 4) _____

- 5) _____

- 6) _____

- 7) _____

- 8) _____

17. _____, _____, and _____ should
prevent most lagoon problems.
18. How can you control odors? _____

19. What can be done to prevent erosion of berms? _____

What can be done to prevent
burrowing? _____

20. Match correct change of water color:
- | | |
|-------------------------|---|
| Rich Green | soils in the water from berm erosion or the present of algae
with different pigmentation |
| Gray or Black | Indicate anaerobic conditions |
| Dull Green or Yellowish | Good conditions |
| Tan, Brown or Red | Can indicate an undesirable type of algae is becoming
dominant |

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21. Taking the list of “**Do’s**”, select TWO bulletins points and explain why it is important to the operation and maintenance of a lagoon?

- 1) _____

- 2) _____

22. Taking the list of “**Don’ts**”, select TWO bulletins points and explain why it is important to the operation and maintenance of a lagoon?

- 1) _____

- 2) _____

